



MULTI-PURPOSE DUMPERS

ESSEX

CONVEYORS, INC.

LIFTS and DUMPS —

ALL FREE-FLOWING MATERIAL
ALL STANDARD CONTAINERS
ALL SPECIAL CONTAINERS

Engineered to YOUR
Specific Requirements

ESSEX
SENIOR
DUMPER

ESSEX
JUNIOR
DUMPER

ESSEX
Hydro-Dumper
TM

ESSEX
VERTICAL
DUMPER

ESSEX

Multi-Purpose

DUMPERS

THE NUMBER OF POSSIBLE APPLICATIONS
FOR ESSEX DUMPERS
IS LIMITED ONLY BY IMAGINATION.

PURPOSE

ESSEX Skip-Hoist Dumpers take the hard manual labor out of lifting and dumping heavy, cumbersome material and cut cost of material handling by reducing labor costs and speeding up operations.

Their multi-purpose functions, and overall versatility, make them the ideal equipment for *lifting and dumping all free-flowing materials, in any type of containers, efficiently and economically.*

Dumping may be accomplished at *any* practical height.

SPECIAL REQUIREMENTS

ESSEX Skip-Hoist Dumpers are designed with **YOUR** special material lifting and dumping problems in mind.

All standard models can be modified to suit YOUR individual job conditions, and to handle ANY type of common or special containers you wish to use.



ESSEX Skip-Hoist Dumpers are scientifically engineered, and are constructed of highest quality materials to exacting specifications.

VERSATILITY

- Dumps ALL free-flowing materials to height desired
- Fast, precise, controlled materials dumping
- Handles all common containers: drums, barrels, boxes, bags, cartons, shop trucks, etc.
- Handles special in-plant containers . . . *any size, shape or capacity*
- Handles bulky, cumbersome containers
- Standard or specially-designed skips as required
- Skips fixed or removable as desired
- Single or multi-purpose operation
- Mobile or stationary models (except Vertical)

MONEY-SAVING ADVANTAGES

- Eliminates costly manual operations
- Speeds up production
- Reduces accidents and lost time
- Eliminates high-dumping problems and costly special equipment
- Feeds or fills production, operating and storage equipment regardless of size or location
- Handles small batches or very heavy loads
- Pouring is smooth and continuous, minimizing waste
- Speeds handling of ingredients and component parts

A Partial List Of

INDUSTRIES

Using ESSEX Dumpers

ABBATOIRS
AGRICULTURAL
AUTOMOTIVE
AVIATION
BAKING
BOTTLING
CANNING
CERAMICS
CHEMICAL
CONFECTIONERY
COSMETICS

DRUGS
DYEING
EXPLOSIVES
FLOOR COVERING
FOOD PROCESSORS
FOUNDRIES
GINNING
GLASS
GRAIN and FEED
LEATHER, BOOTS and SHOES
MEATS and PROVISIONS

METALWORKING
MILLING and CEREALS
MINING
NUTS and POPCORN
PACKERS
PAPER MILLS
PETROLEUM
PHARMACEUTICAL
PLASTICS
POTATO CHIP
REFRACTORIES

REFINING
ROOFING
RUBBER
SMELTING
SPICE
STONE PRODUCTS
SUGAR
TEA and COFFEE
TIRE
WIRE and CABLE
WOODWORKING

ESSEX SENIOR DUMPER

ESSEX JUNIOR DUMPER

ESSEX VERTICAL DUMPER

ESSEX Hydro-Dumper™

MECHANICAL FEATURES

- Every unit factory-tested and operated
- Structural steel frame electrically welded and cross-braced
- Electrical equipment meets the most rigid standards
- Herringbone worm gear motor with magnetic brake
- Automatic limit switch
- 3-button control switch — UP, DOWN and STOP; momentary contact type
- Steel drum and cable hoisting apparatus

SAFETY FACTORS

Consider these features and their positive effect on morale, efficiency and productivity:

- Safety guards enclose all moving parts
- Positive-acting control switch with electrically-operated brake on motor
- Automatic electric stops at top and bottom
- Slack cable safety switch on Senior & Vertical Dumpers
- Positive-acting floor locks prevent lateral movement of mobile unit while in operation
- Reduces personnel injury



CONTROLS

Standard 3-button control switch with optional automatic timed delay and return switch under the stop button. Large buttons are featured for easy "touch-control" operation.

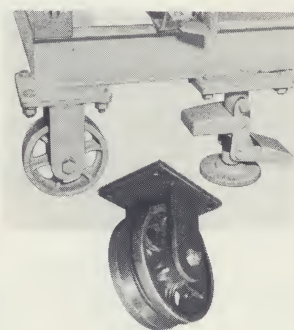
OPTIONAL EQUIPMENT

- Waterproof, weatherproof or explosion-proof motors and controls
- Grooved steel casters for floor track operation
- Plastic or hard rubber casters
- Automatic timed delay for automatic return cycle

CASTERS

Standard equipment on ESSEX mobile Dumpers, up to 15 feet in height, includes top-quality, heavy-duty, ball bearing, steel casters and positive-acting floor locks.

Grooved steel casters for floor track operation optional.



SKIPS AND CONTAINER TYPES

Following standard skips are available:

- Type BG — Bag-handling type
- Type BX — Box type for bulk materials
- Type D — Drum or barrel type
- Type F — Fork-type (Multi-Purpose)
- Fork-type "F" can be adapted for use with bags, shop trucks, boxes or drums. Type "D" can be designed to accept bowls, pans, tote boxes and other commonly used types of in-plant containers.

Any ESSEX Dumper can be designed to handle specialized types of containers . . . large or small, square or round; or unusual shapes and sizes.

Pouring hoods, dust hoods, chutes, etc. available to meet special job requirements.

A Partial List Of

MATERIALS

ESSEX Dumpers Handle

ACIDS
AGGREGATES
BLEACHES
CANDY
CASTINGS
CHEMICALS
Bulk
Liquid
Packaged
CLAY
CUPOLA CHARGES

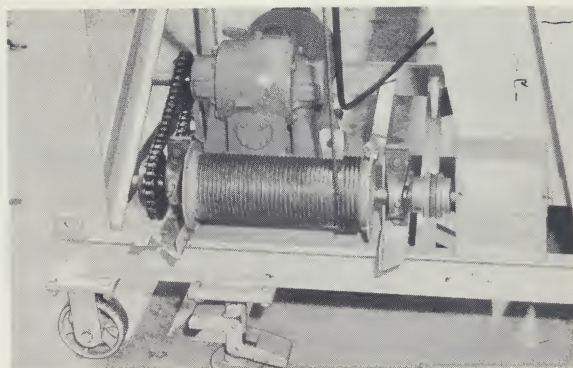
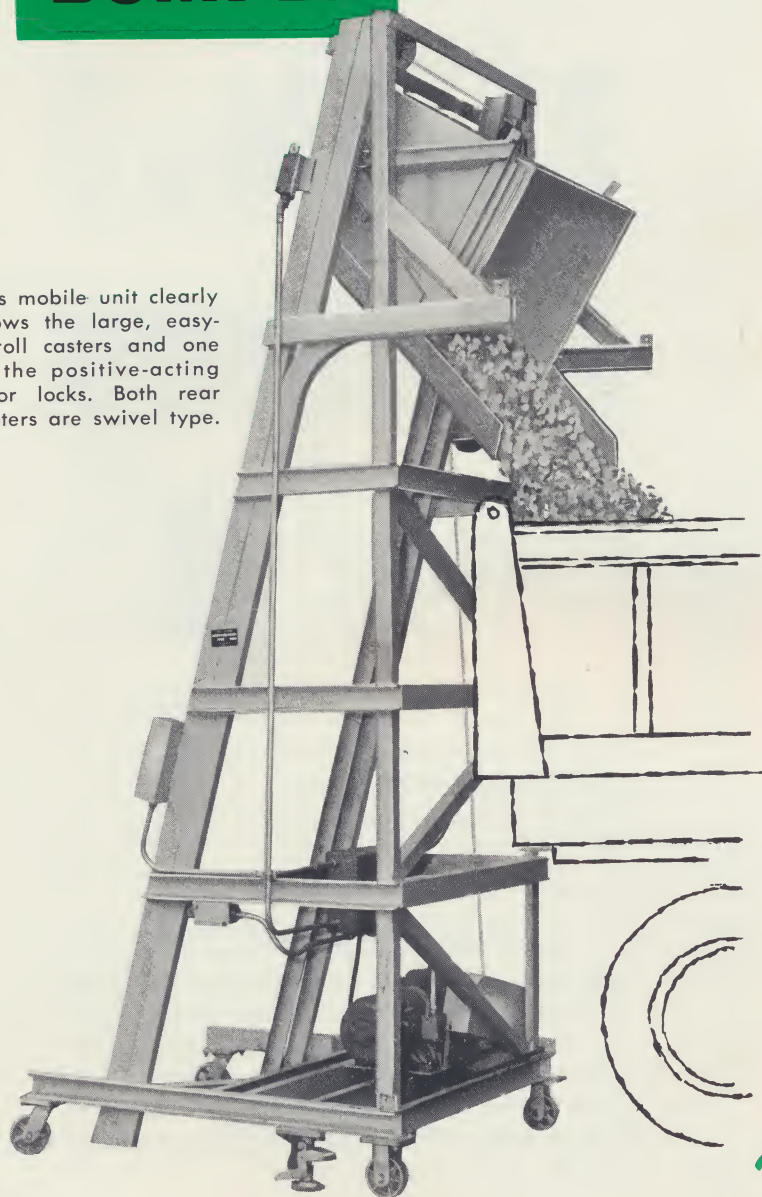
DAIRY PRODUCTS
DRUGS
DOUGH
FERTILIZERS
FLOUR and FEEDS
FOODS
GLASS
GRAIN
GRANULAR MATERIAL
GRAVEL
INKS

INSULATION
JUNK
LIQUIDS
MEAT and BY-PRODUCTS
METAL PARTS
OILS
PAINTS
PAPER PULP
PLASTICS
POWDERS
PRODUCE

REFUSE
RESINS
RUBBER
SAND
SCRAP — All Types
STAMPINGS
SUGAR
TARS
TILES
WASTE MATERIALS
WAX

ESSEX SENIOR DUMPER

This mobile unit clearly shows the large, easy-to-roll casters and one of the positive-acting floor locks. Both rear casters are swivel type.



Hoisting unit shown with safety cover removed. Box at right of drum contains a gear-operated limit switch. Motor and gear reduction are self-contained units.

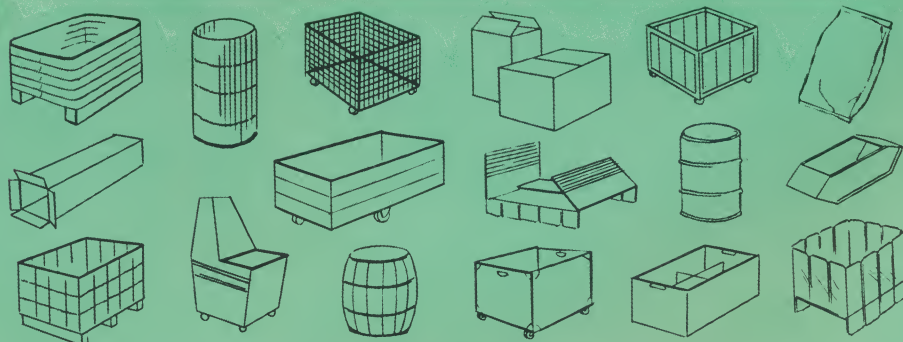


An ESSEX Senior Dumper, with special skip and portable shop truck, is used to dump scrap aluminum into furnace prior to melting the metal for re-use. Scrap is brought from different plant areas and dumped directly into furnace... no double handling necessary. Installation is in a die castings industry plant.

The SAFE, QUICK, and

A Few Types Of CONTAINERS

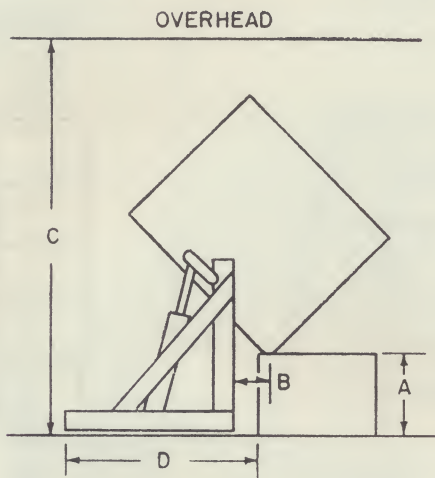
ESSEX Dumpers Handle



ESSEX HYDRO-DUMPER

SPECIFICATIONS

MODEL 'EHD'



IV. The receptacle

- A.....
B (min. allow.).....
C (max. allow.).....
D (max. allow.).....

Size of Opening Pouring Into

- Length.....
Width.....
Dia.....

I. Material handled.

1. Name.....
2. Specify any hazardous conditions.....
3. Solid Bulk density.....lbs./cu. ft.
4. Approximate angle required for flow.....degrees.

II. The container to be dumped.

1. Gross weight.....Lbs. Net.....Lbs.
2. No. of Trips per hour.....
3. Size of Container
Height..... Length..... Width.....
or Diameter.....
4. Special containers: Please submit sketch giving detailed dimensions. Advise method of loading and which side enters skip first.

III. Location of Power Pack and Control

Handle as you are facing Loading Point.

- Right Side ☐ Left Side ☐ Special.....
.....

V. The drive.

1. Motor: Standard totally enclosed ☐ Weatherproof ☐
Explosion-proof Class I Group D ☐ Waterproof ☐
2. Power supply: Volts.....Phases.....Cycles.....Wires.....
3. Control Circuit: Lever control (Standard).....☐
or Push Button (extra).....☐ Volts.....
4. J.I.C. specifications ☐ Fused disconnect ☐
5. Control enclosures: Standard Nema I ☐ Dust tight or
water tight Nema IV ☐ Explosion-proof Nema VII ☐

VI. The frame.

1. The DUMPER should be mobile ☐ Stationary ☐
2. Wheels of Metal (Std.) ☐ Rubber ☐ Plastic ☐
2 swivel and 2 stationary casters (Std.) ☐
4 swivel casters ☐
4 stationary casters for forward and backward ☐ or
sideways movement ☐ plain ☐ or grooved wheels ☐
3. Minimum aisle requirements.....

Customer Name
Individual.....
Address.....
City.....State.....
Date.....

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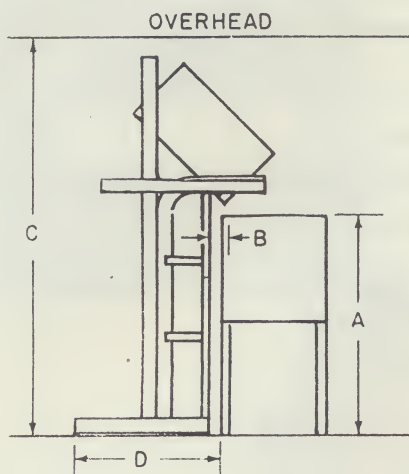
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ESSEX SKIP-HOIST DUMPERS

SPECIFICATIONS

ESSEX JUNIOR—MODEL 'EJ'



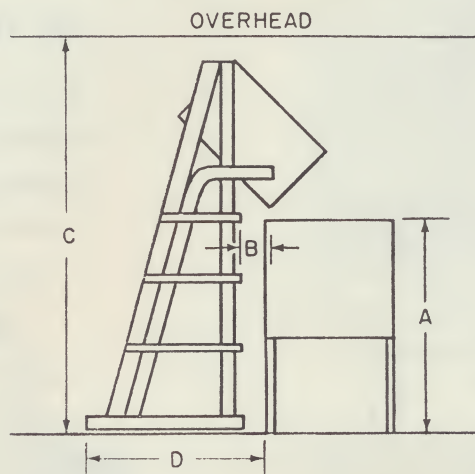
B (min. allow.).....

C (max. allow.).....

D (max. allow.).....

Size Opening Pouring Into:

ESSEX SENIOR—MODEL 'ES'



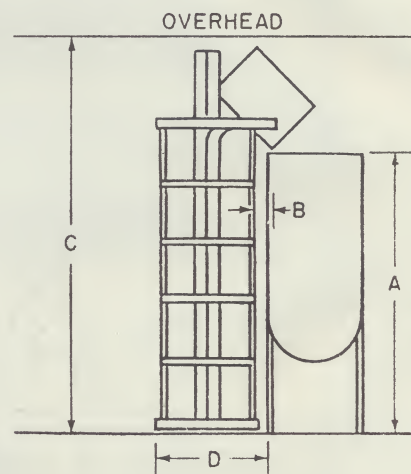
B (min. allow.).....

C (max. allow.).....

D (max. allow.).....

Length..... Width.....

ESSEX VERTICAL—MODEL 'EV'



A.....

B (min. allow.).....

C (max. allow.).....

D (max. allow.).....

Dia.....

I. Material handled.

1. Name.....
2. Nature: Dusty ☐, sticky ☐, hygroscopic ☐, toxic ☐, flammable ☐, explosive ☐
Hazardous conditions?
- Solid Bulk density.....lbs./cu. ft.
- Approximate angle required for flow.....degrees.

II. The dumper skip.

1. Material of construction: ☐ Carbon Steel ☐ Stainless Steel
Other.....
2. Bag or Sack type ☐ Drum or Barrel type ☐
Conveyor rollers in base ☐ Special details.....
3. Box type for bulk material ☐cubic ft. capacity
Integral one piece unit ☐ Detachable truck-type unit ☐

III. The frame.

1. The DUMPER should be mobile ☐ Stationary ☐
2. Wheels of Metal (Std.) ☐ Rubber ☐ Plastic ☐
2 swivel and 2 stationary casters (Std.) ☐
4 swivel casters ☐
4 stationary casters for forward and backward ☐ or
sideways movement ☐ plain ☐ or grooved wheels ☐
3. Minimum aisle requirements.....

IV. The container to be dumped.

1. Gross weight.....Lbs. Net.....Lbs.
2. No. of Trips per hour.....
3. Bags: Paper ☐ Cotton ☐ Burlap ☐ Dimensions full,
standing on end Height.....Width.....Thickness.....
4. Drums ☐ or Barrels ☐ Paper ☐ Wood ☐ Metal
Length.....Maximum Diameter.....Minimum
diameter.....
5. Special containers: Please submit sketch giving detailed
dimensions. Advise method of loading and which side
enters skip first.
6. Bulk material: Lbs. per load.....Total Lbs. per hour.....

V. The drive.

1. Motor: Standard totally enclosed ☐ Weatherproof ☐
Explosion-proof Class I Group D ☐ Waterproof ☐
2. Power supply: Volts.....Phases.....Cycles.....Wires.....
3. Control Circuit: Volts.....
J.I.C. specifications ☐ Fused disconnect ☐
4. Control enclosures: Standard Nema I ☐ Dust tight or
water tight Nema IV ☐ Explosion-proof Nema VII ☐

Customer Name
Individual.....
Address.....
City.....State.....
Date.....

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The Essex Senior Dumper's wide range of applications make it the most popular dumper in the field.

They are used in a multitude of industries, performing efficiently day in and day out.

The Senior Dumper, like all Essex Dumpers, has the ever present feature of rugged dependability.

Here again, the Essex Senior can be modified to meet your specific job requirements.



A bulk box truck is easily rolled into a multi-purpose fork type skip. Channels on both sides of the box slide smoothly into the mated arms of the skip.



Box truck is in place and ready to be lifted, up-ended and dumped. The box truck stays securely in place during the entire dumping operation.



Box truck in full dumping position. After dumping, the empty box is returned and rolled out and a full one is rolled in. A continuous cycle of dumping can be maintained in this fashion.

and EASY WAY... To LIFT and DUMP

A Few Types Of

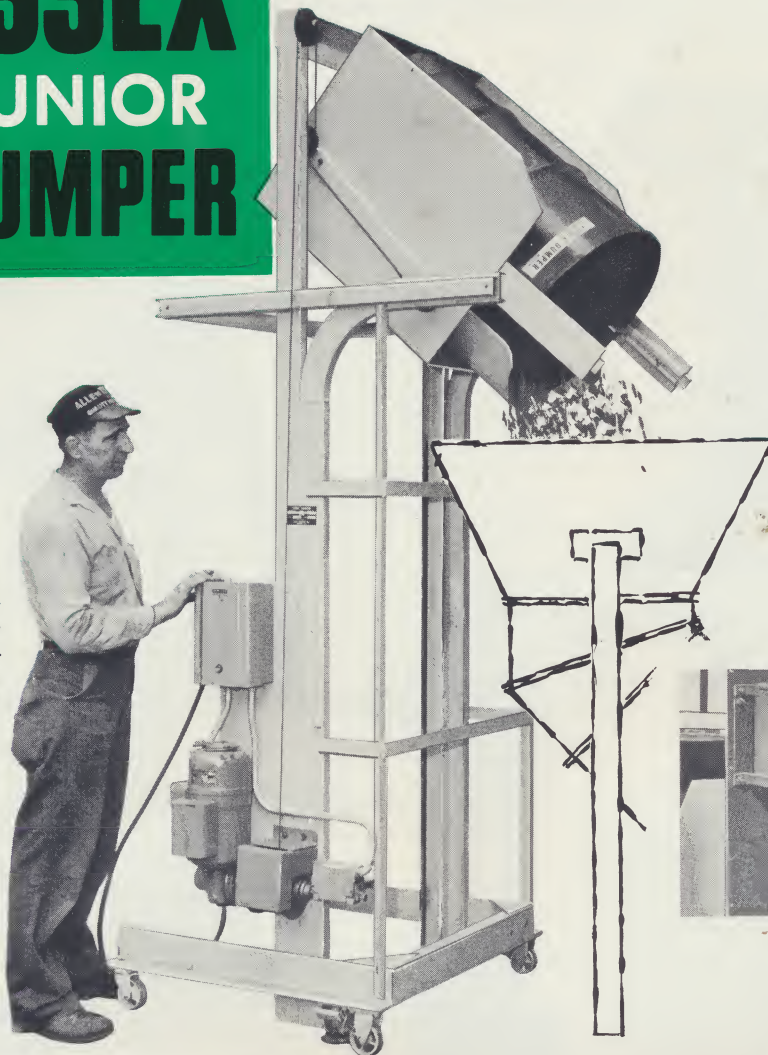
RECEPTACLES

ESSEX Dumpers Dump Into



ESSEX JUNIOR DUMPER

A rapid, low cost method for loading mixers, pulverizing equipment, and etc.

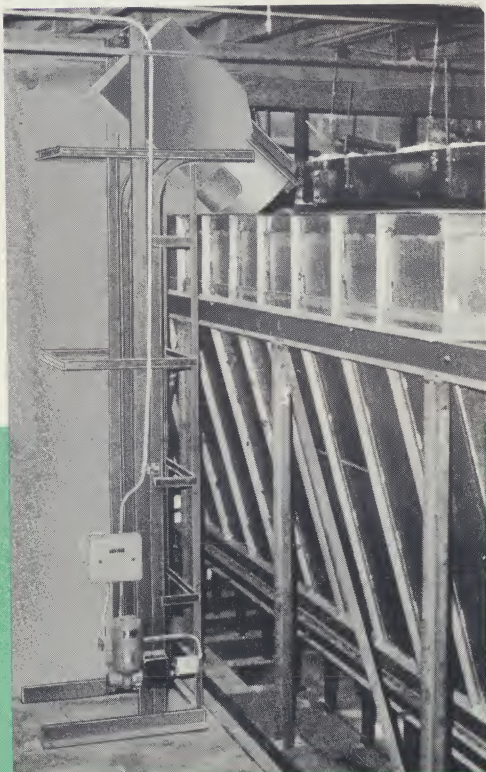
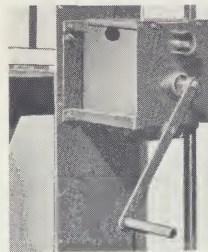


The ESSEX Junior Dumper is ideal for lifting and dumping lighter loads. *It parallels the Senior in versatility, mechanical, safety and operating features.*

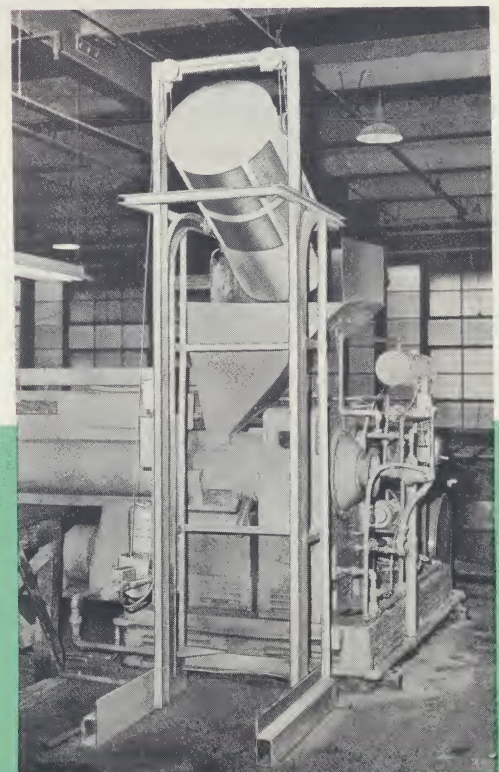
- Mobile and stationary models
- $\frac{1}{2}$ or $\frac{3}{4}$ HP motor, depending on dumper capacity
- Dumping height 2 to 8 feet (mobile)
- Dumping height (stationary) to any reasonable height
- Engineered to fit your specific job conditions

HAND-OPERATED ESSEX JUNIOR

Available where only occasional use is required, or motor-operated equipment not desirable. It has essentially the same features as unit described above, except for type of power.



A permanently installed ESSEX Junior used at a molding plant to lift and dump powdered chemicals into a blending hopper. Type "D" skip is shown holding shipping container in the dumping position.



Equipped with a drum skip for lifting and dumping drums, this ESSEX Junior in a wire and cable plant fills the bill in loading up this mixer with plastic pellets. No more worry over sprains or other injuries to personnel from heavy lifting.

ESSEX

Hydro-Dumper™

DESIGNED FOR YOUR PARTICULAR NEED

Each ESSEX Hydro-Dumper is engineered and built to solve **your** dumping problem, where mechanical lifting prior to dumping is not required.

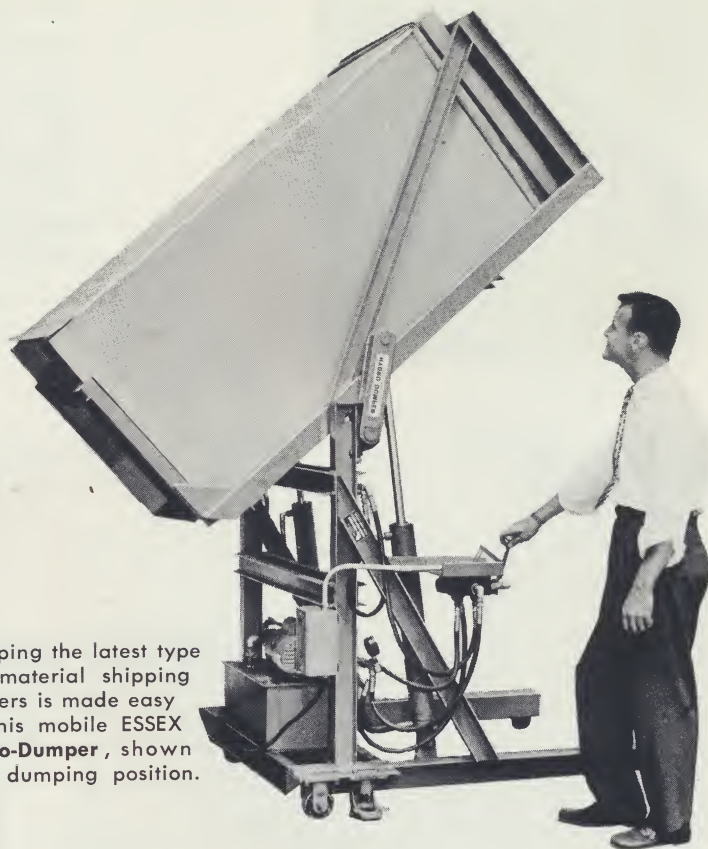
MECHANICAL FEATURES

- Dumps any type container
- Structural steel electrically-welded frame
- Electrical equipment meets the most rigid standards
- Dumping cycle is one smooth operation
- Large hydraulic cylinders supply power
- Manual lever or push-button operation
- Magnetic starter
- ESSEX Hydraulic Power Pac (1000 PSI rating)

OPTIONAL EQUIPMENT

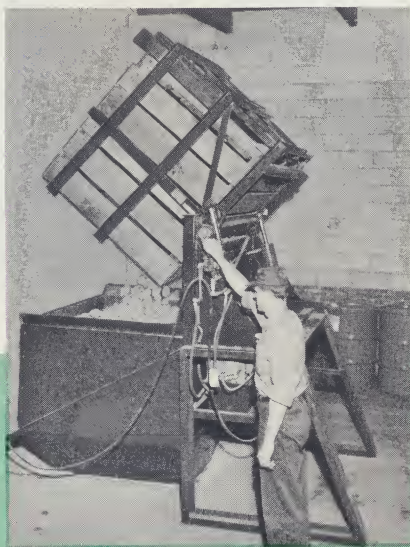
- Waterproof, weatherproof or explosion-proof motors and controls
- Grooved steel casters for floor track operation
- Plastic or hard rubber casters
- Custom-built stands for higher level dumping

Dumping the latest type bulk material shipping containers is made easy with this mobile ESSEX Hydro-Dumper, shown in dumping position.



MONEY-SAVING ADVANTAGES

- Reduces accidents
- Speeds up production
- Handles heavy, bulky containers
- Mobile and Stationary Models
- Eliminates costly manual operations
- Handles all free-flowing materials
- Simple, positive, safe operation
- Serves production or transfer areas



In the food industry, this permanently installed ESSEX Hydro-Dumper is used to dump 2500 lb. pallet boxes full of potatoes into a hopper. Special-built stand permits greater dumping height.



Another field of operation for the ESSEX Hydro-Dumper is the baking industry. Mixing bowl and carrying truck are rolled into the dumper, locked in place, and the entire assembly is pivoted, and the contents dumped.



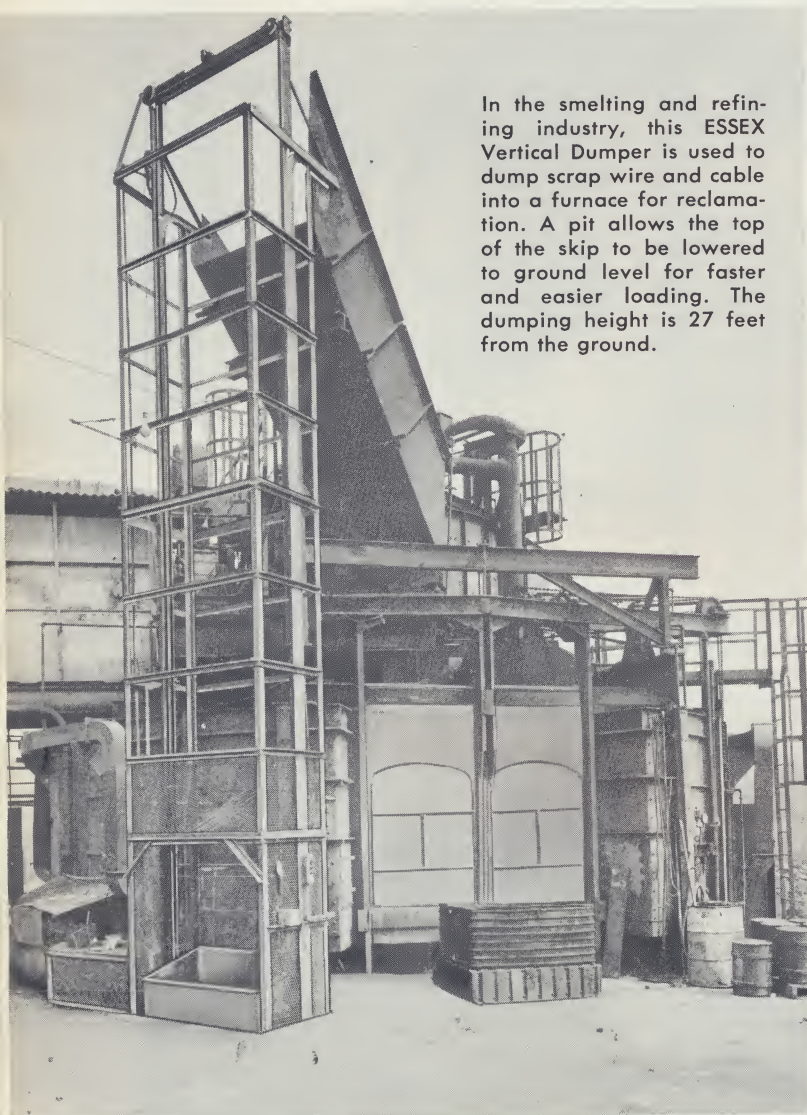
ESSEX VERTICAL DUMPER

The ESSEX Vertical Dumper is the answer to HIGH dumping problems beyond the ordinary scope of the Senior and Junior models.

EACH UNIT SPECIALLY DESIGNED AND BUILT TO MEET YOUR INDIVIDUAL LIFTING AND DUMPING PROBLEMS.

Except for mobility, the Vertical offers the same mechanical and safety features, money-saving advantages and versatility as the Senior and Junior Dumpers.

- Dumps at *any* practical height
- Indoor or outdoor installation
- Self-supporting stationary type
- Minimum floor space required



In the smelting and refining industry, this ESSEX Vertical Dumper is used to dump scrap wire and cable into a furnace for reclamation. A pit allows the top of the skip to be lowered to ground level for faster and easier loading. The dumping height is 27 feet from the ground.



This below-ground loading and above-ground dumping installation solved the waste handling problem of a meat packer. This ESSEX Vertical Dumper has a dumping height of 25 feet.

Inside installation of the Vertical Dumper can be made where loading on one floor and dumping on another is required.



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